

Butler, Douglas

PLUS  
7/28/04

From: PLUS  
Sent: Thursday, June 17, 2004 1:59 PM  
To: Butler, Douglas  
Subject: PLUS Results for 10808968

Here are the PLUS search results for 10808968.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10808968\_QUAL.txt



10808968\_LIST.txt



10808968\_WEST.txt



10808968\_EAST.txt



10808968.east



10808968\_CLS.txt



10808968\_CLSTITLES.txt



10808968\_WDS.txt

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## 10808968\_LIST

10808968

PLUS Search Results for S/N 10808968, Searched June 17, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

4592669	4857253	6082109
4242943	4896753	6109032
4480531	4909477	6113063
5558123	4930312	6126418
5558001	4941511	6141963
5586630	4949754	6144127
5697336	4951470	6161464
5802950	5002162	6179393
4313643	5021623	6205784
4386808	5178092	6209583
4394833	5186141	6209967
4471978	5219054	6213263
4553471	5251969	6209583
4828077	5263320	6209967
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5401085	5322354	6227340
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5753807	5383539	6389954
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10808968\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10808968 on June 17, 2004

Original Classifications

6 280/605  
5 91/376R  
5 92/63  
3 60/553  
3 91/369.2  
3 138/30  
3 188/67  
3 303/114.3  
2 60/562  
2 60/578  
2 92/29  
2 116/208  
2 139/452  
2 188/318  
2 188/73.38  
2 188/73.45  
2 242/338.3  
2 251/58  
2 303/113.1  
2 303/115.1  
2 303/115.4  
2 303/9.63  
2 360/132

Cross-Reference Classifications

4 60/591  
4 91/376R  
4 92/130A  
4 138/26  
4 188/349  
3 60/547.1  
3 220/721  
3 242/343  
3 303/9.75  
2 60/545  
2 60/589  
2 92/107  
2 92/129  
2 92/169.4  
2 92/48  
2 92/5R  
2 92/75  
2 92/88  
2 137/625.46  
2 137/627.5  
2 137/907  
2 188/1.11R  
2 188/1.11W  
2 188/170  
2 188/195  
2 188/317  
2 188/322.15  
2 188/67  
2 188/72.3

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2 188/72.4  
2 192/111A  
2 192/70.28  
2 242/338.3  
2 242/365.4  
2 251/308  
2 251/61.5  
2 267/118  
2 285/319  
2 297/375  
2 303/84.1

Combined Classifications

9 91/376R  
6 92/63  
6 280/605  
5 188/67  
4 60/591  
4 91/369.2  
4 92/130A  
4 138/26  
4 188/349  
4 242/338.3  
4 303/9.75  
3 60/547.1  
3 60/553  
3 92/5R  
3 137/627.5  
3 138/30  
3 139/452  
3 188/170  
3 220/721  
3 242/343  
3 303/113.1  
3 303/114.3  
3 303/9.63  
3 360/132  
2 60/487  
2 60/545  
2 60/552  
2 60/562  
2 60/578  
2 60/589  
2 92/107  
2 92/129  
2 92/169.4  
2 92/27  
2 92/29  
2 92/48  
2 92/75  
2 92/88  
2 116/208  
2 123/321  
2 137/625.46  
2 137/907  
2 188/1.11R  
2 188/1.11W  
2 188/171  
2 188/195



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2 188/24.19  
2 188/317  
2 188/318  
2 188/322.15  
2 188/72.3  
2 188/72.4  
2 188/73.38  
2 188/73.45  
2 192/111A  
2 192/70.28  
2 242/365.4  
2 251/308  
2 251/58  
2 251/61.5  
2 267/118  
2 285/319  
2 297/375  
2 303/114.1  
2 303/115.1  
2 303/115.4  
2 303/116.1  
2 303/84.1  
2 303/89  
2 303/9.67  
2 360/85  
2 417/470

## 10808968\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10808968 on June 17, 2004

9 91/376R (5 OR, 4 XR)  
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE  
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE  
 FLUID CONTROL  
 91/368 .Follower type  
 91/374 ..Plural movable valve parts  
 91/376R ...One movable part unitary with working member

6 92/63 (5 OR, 1 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/61 RELATIVELY MOVABLE WORKING MEMBERS  
 92/62 .First working member moves second coaxial  
 working member through separating abutment surfaces  
 92/63 ..With separate biasing means for a working  
 member

6 280/605 (6 OR, 0 XR)  
 Class 280 : LAND VEHICLES  
 280/841 SKATES  
 280/11.12 .Runner type  
 280/601 ..Skis  
 280/604 ...With climbing or braking means  
 280/605 ....Pivotally mounted brake member

5 188/67 (3 OR, 2 XR)  
 Class 188 : BRAKES  
 188/67 ROD

4 60/591 (0 OR, 4 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/591 ..Having valve, director, or restrictor in  
 pulse fluid flow path

4 91/369.2 (3 OR, 1 XR)  
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE  
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE  
 FLUID CONTROL  
 91/368 .Follower type  
 91/369.1 ..With relatively movable working and output  
 members reacting on input member  
 91/369.2 ...Rubber block reaction means

4 92/130A (0 OR, 4 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/130R WITH SEPARATE BIASING MEANS FOR WORKING MEMBER  
 92/130A .Bias normally held inoperative by fluid  
 pressure

4 138/26 (0 OR, 4 XR)  
 Class 138 : PIPES AND TUBULAR CONDUITS  
 138/26 WITH PRESSURE COMPENSATORS

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- 4 188/349 (0 OR, 4 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/151R .Fluid pressure  
 188/152 ..Road vehicle  
 188/349 ...With front rear brake apportioner
- 4 242/338.3 (2 OR, 2 XR)  
 Class 242 : WINDING, TENSIONING, OR GUIDING  
 242/324 UNWINDING AND REWINDING A MACHINE CONVERTIBLE  
 INFORMATION CARRIER (E.G., MAGNETIC TAPE OR PHOTOGRAPH  
 HIC FILM)  
 242/335 .Cartridge system (i.e., cartridge work station  
 or cartridge)  
 242/338 ..With insertion responsive component  
 242/338.1 ...Releasable brake  
 242/338.3 ....Acting on plural coils
- 4 303/9.75 (1 OR, 3 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/5 MULTIPLE FLUID-RECEIVING DEVICES  
 303/6.01 .Multiple motors  
 303/9.62 ..Apportioning control  
 303/9.75 ...Detail
- 3 60/547.1 (0 OR, 3 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/547.1 ..With control of or by a separate power fluid,  
 etc.
- 3 60/553 (3 OR, 0 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/547.1 ..With control of or by a separate power fluid,  
 etc.  
 60/552 ...Mechanical feedback to manual control  
 controls power fluid to establish position of working  
 member of master  
 60/553 ....With distinct piston or diaphragm exposed  
 to pulsator pressure imparting feel to manual control
- 3 92/5R (1 OR, 2 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/5R WITH (1) SIGNAL OR INDICATOR OR (2) INSPECTION  
 WINDOW IN EXPANSIBLE CHAMBER WALL PORTION
- 3 137/627.5 (1 OR, 2 XR)  
 Class 137 : FLUID HANDLING  
 137/561R SYSTEMS  
 137/627.5 .Sequentially closing and opening alternately  
 seating flow controllers
- 3 138/30 (3 OR, 0 XR)  
 Class 138 : PIPES AND TUBULAR CONDUITS

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138/26 WITH PRESSURE COMPENSATORS  
 138/30 .Variable capacity chambers

## 3 139/452 (2 OR, 1 XR)

Class 139 : TEXTILES: WEAVING  
 139/116.1 WEFT MANIPULATION  
 139/429 .Weaving with stationary weft supply  
 139/450 ..Weft handling  
 139/452 ...Measuring or storing

## 3 188/170 (1 OR, 2 XR)

Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/166 .Spring  
 188/170 ..Fluid-pressure release

## 3 220/721 (0 OR, 3 XR)

Class 220 : RECEPTACLES  
 220/694 CONTAINER ATTACHMENT OR ADJUNCT  
 220/720 .Expanding or contracting portion or component  
 220/721 ..Pressure or temperature compensating

## 3 242/343 (0 OR, 3 XR)

Class 242 : WINDING, TENSIONING, OR GUIDING  
 242/324 UNWINDING AND REWINDING A MACHINE CONVERTIBLE  
 INFORMATION CARRIER (E.G., MAGNETIC TAPE OR PHOTOGRAPH

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FILM)

242/335 .Cartridge system (i.e., cartridge work station  
 or cartridge)  
 242/341 ..Coil-to-coil cartridge  
 242/343 ...With brake or lock

## 3 303/113.1 (2 OR, 1 XR)

Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/121 SPEED-CONTROLLED  
 303/113.1 .Having a valve system responsive to a wheel  
 lock signal

## 3 303/114.3 (3 OR, 0 XR)

Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/121 SPEED-CONTROLLED  
 303/113.1 .Having a valve system responsive to a wheel  
 lock signal  
 303/114.3 ..Including pneumatic power booster

## 3 303/9.63 (2 OR, 1 XR)

Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/5 MULTIPLE FLUID-RECEIVING DEVICES  
 303/6.01 .Multiple motors  
 303/9.62 ..Apportioning control  
 303/9.63 ...Failure responsive

## 3 360/132 (2 OR, 1 XR)

Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR  
 RETRIEVAL  
 360/131 RECORD MEDIUM  
 360/132 .In container

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- 2 60/487 (1 OR, 1 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/487 .Input pump and rotary output motor system  
 having displacement varying type of direction or speed  
 selector
- 2 60/545 (0 OR, 2 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/545 ..Having electricity or magnetically operated  
 structure
- 2 60/552 (1 OR, 1 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/547.1 ..With control of or by a separate power fluid,  
 etc.  
 60/552 ...Mechanical feedback to manual control  
 controls power fluid to establish position of working  
 member of master
- 2 60/562 (2 OR, 0 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/562 ..Master piston of one pulsator circuit drives  
 master piston of a parallel circuit through a resilient,  
 fluid or lost motion connection
- 2 60/578 (2 OR, 0 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/574 ..Automatic control of plural stage pressure  
 generation or utilization  
 60/578 ...Unitarily movable displacer delivers fluid  
 from two delivery chambers, one chamber being ineffective  
 under high pressure delivery
- 2 60/589 (0 OR, 2 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/585 ..Holder for reserve liquid feeds master  
 60/589 ...Master piston or its actuator mechanically  
 operates valve between holder and master cylinder
- 2 92/107 (0 OR, 2 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/107 ANNULAR WORKING MEMBER OR ANNULAR LINEARLY  
 EXTENDING CHAMBER THEREFOR
- 2 92/129 (0 OR, 2 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/129 ABUTMENT CONNECTION BETWEEN WORKING MEMBER AND

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POWER TRANSMISSION ELEMENT

- 2 92/169.4 (0 OR, 2 XR)  
Class 092 : EXPANSIBLE CHAMBER DEVICES  
92/169.1 CYLINDER DETAIL  
92/169.2 .With reinforcing member  
92/169.3 ..Extending through working member  
92/169.4 ...Coaxial sleeve or tube
- 2 92/27 (1 OR, 1 XR)  
Class 092 : EXPANSIBLE CHAMBER DEVICES  
92/15 WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT  
MOVEMENT OF WORKING MEMBER  
92/23 .Means includes element interfitting between  
working member and fixed part  
92/27 ..Fluid actuated (28)
- 2 92/29 (2 OR, 0 XR)  
Class 092 : EXPANSIBLE CHAMBER DEVICES  
92/29 WITH RELEASABLE LATCH MEANS BETWEEN WORKING  
MEMBER AND POWER TRANSMISSION ELEMENT AXIALLY SLIDABLE  
THEREIN
- 2 92/48 (0 OR, 2 XR)  
Class 092 : EXPANSIBLE CHAMBER DEVICES  
92/48 PLURAL FLEXIBLE WALL WORKING MEMBERS
- 2 92/75 (0 OR, 2 XR)  
Class 092 : EXPANSIBLE CHAMBER DEVICES  
92/61 RELATIVELY MOVABLE WORKING MEMBERS  
92/75 .Oppositely movable walls of common chamber  
(50) (69)
- 2 92/88 (0 OR, 2 XR)  
Class 092 : EXPANSIBLE CHAMBER DEVICES  
92/88 SEALED OPENING IN LONGITUDINAL WALL OF CHAMBER  
FOR RECEIVING WORKING MEMBER PORTION
- 2 116/208 (2 OR, 0 XR)  
Class 116 : SIGNALS AND INDICATORS  
116/200 INDICATORS  
116/208 .Element wear type
- 2 123/321 (1 OR, 1 XR)  
Class 123 : INTERNAL-COMBUSTION ENGINES  
123/319 ENGINE SPEED REGULATOR  
123/320 .Responsive to deceleration mode (e.g., engine  
acting as a brake)  
123/321 ..Valve timing altering means (e.g., axially  
sliding cam shaft)
- 2 137/625.46 (0 OR, 2 XR)  
Class 137 : FLUID HANDLING  
137/561R SYSTEMS  
137/625 .Multi-way valve unit  
137/625.46 ..Rotary valve unit

- 2 137/907 (0 OR, 2 XR)  
Class 137 : FLUID HANDLING

137/907

## VACUUM-ACTUATED VALVES

- 2 188/1.11R (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/1.11R WITH CONDITION INDICATOR
- 2 188/1.11W (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/1.11R WITH CONDITION INDICATOR  
 188/1.11W .Wear
- 2 188/171 (1 OR, 1 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/166 .Spring  
 188/171 ..Electric release
- 2 188/195 (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/195 .Load
- 2 188/24.19 (1 OR, 1 XR)  
 Class 188 : BRAKES  
 188/2R VEHICLE  
 188/24.11 .Velocipede (e.g., bicycle, etc.)  
 188/24.12 ..Including mechanism for opposed gripping of  
                   wheel rim or tire  
 188/24.19 ...Having means to adjust spacing between brake  
                   component and wheel rim or tire
- 2 188/317 (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/266 INTERNAL-RESISTANCE MOTION RETARDER  
 188/297 .Having a thrust member with a variable volume  
                   chamber (e.g., coaxial or telescoping tubes, compensati  
 ing  
                   reservoir)  
 188/316 ..Fluid through or around piston within chamber  
 188/317 ...Via fixed or variable orifice in piston
- 2 188/318 (2 OR, 0 XR)  
 Class 188 : BRAKES  
 188/266 INTERNAL-RESISTANCE MOTION RETARDER  
 188/297 .Having a thrust member with a variable volume  
                   chamber (e.g., coaxial or telescoping tubes, compensat  
 ing  
                   reservoir)  
 188/316 ..Fluid through or around piston within chamber  
 188/317 ...Via fixed or variable orifice in piston  
 188/318 ....And passage venting fluid external to  
                   chamber
- 2 188/322.15 (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/266 INTERNAL-RESISTANCE MOTION RETARDER  
 188/322.13 .Valve structure or location

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- 188/322.15 ..Piston valve detail (e.g., seat design,  
structural arrangement, metering element)
- 2 188/72.3 (0 OR, 2 XR)  
Class 188 : BRAKES  
188/67 ROD  
188/71.1 .Axially movable brake element or housing  
therefor  
188/72.1 ..With means for actuating brake element  
188/72.3 ...And means for retracting brake element
- 2 188/72.4 (0 OR, 2 XR)  
Class 188 : BRAKES  
188/67 ROD  
188/71.1 .Axially movable brake element or housing  
therefor  
188/72.1 ..With means for actuating brake element  
188/72.4 ...By fluid pressure piston
- 2 188/73.38 (2 OR, 0 XR)  
Class 188 : BRAKES  
188/67 ROD  
188/71.1 .Axially movable brake element or housing  
therefor  
188/73.31 ..Retainer for brake element  
188/73.37 ...Having means to prevent vibration of brake  
element  
188/73.38 ....Spring
- 2 188/73.45 (2 OR, 0 XR)  
Class 188 : BRAKES  
188/67 ROD  
188/71.1 .Axially movable brake element or housing  
therefor  
188/73.31 ..Retainer for brake element  
188/73.43 ...Including actuator slidable in plane  
parallel to axis of rotation of wheel  
188/73.44 ....On axially extending pin  
188/73.45 .....Plural pins
- 2 192/111A (0 OR, 2 XR)  
Class 192 : CLUTCHES AND POWER-STOP CONTROL  
192/30R CLUTCHES  
192/111R .Wear compensators  
192/111A ..Automatic wear compensators
- 2 192/70.28 (0 OR, 2 XR)  
Class 192 : CLUTCHES AND POWER-STOP CONTROL  
192/30R CLUTCHES  
192/66.1 .Axially engaging  
192/70.11 ..Interposed, mating clutch-elements  
192/70.27 ...With spring means to move clutch-element  
axially  
192/70.28 ....To separate engaged clutch-elements
- 2 242/365.4 (0 OR, 2 XR)  
Class 242 : WINDING, TENSIONING, OR GUIDING  
242/364 UNIDIRECTIONAL WINDING AND UNWINDING  
242/364.6 .Variable number of windings on support



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- 242/365.3      ..Stationary winding surface (e.g., with flyer)
- 242/365.4      ...Brake providing resistance to removal of material
- 2    251/308      (0 OR, 2 XR)
  - Class    251 : VALVES AND VALVE ACTUATION
  - 251/304      ROTARY VALVES
  - 251/305      .Butterfly
  - 251/308      ..Head and stem connections
- 2    251/58      (2 OR, 0 XR)
  - Class    251 : VALVES AND VALVE ACTUATION
  - 251/12      FLUID ACTUATED OR RETARDED
  - 251/58      .With mechanical movement between actuator and valve
- 2    251/61.5      (0 OR, 2 XR)
  - Class    251 : VALVES AND VALVE ACTUATION
  - 251/12      FLUID ACTUATED OR RETARDED
  - 251/61      .Flexible wall expansible chamber reciprocating valve actuator
  - 251/61.2      ..Coaxial actuator, seat and valve
  - 251/61.5      ...Actuator wall between valve and coaxial spring biasing means
- 2    267/118      (0 OR, 2 XR)
  - Class    267 : SPRING DEVICES
  - 267/113      FLUID
  - 267/118      .Expansible-contractible chamber device
- 2    285/319      (0 OR, 2 XR)
  - Class    285 : PIPE JOINTS OR COUPLINGS
  - 285/305      ESSENTIAL CATCH
  - 285/319      .Leaf spring
- 2    297/375      (0 OR, 2 XR)
  - Class    297 : CHAIRS AND SEATS
  - 297/353      MOVABLE BACK
  - 297/354.1      .Tiltable
  - 297/354.12      ..Plural distinct occupant-supporting positions
  - 297/374      ...Friction detent
  - 297/375      ....Clamp acts on axially moving rod
- 2    303/114.1      (1 OR, 1 XR)
  - Class    303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121      SPEED-CONTROLLED
  - 303/113.1      .Having a valve system responsive to a wheel lock signal
  - 303/114.1      ..Including hydraulic power booster
- 2    303/115.1      (2 OR, 0 XR)
  - Class    303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121      SPEED-CONTROLLED
  - 303/113.1      .Having a valve system responsive to a wheel lock signal
  - 303/115.1      ..System controlled by expansible chamber type modulator

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- 2 303/115.4 (2 OR, 0 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/115.1 ..System controlled by expansible chamber type modulator
  - 303/115.4 ...Having pump pressure control
- 2 303/116.1 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/116.1 ..Including pump with system solenoid valve
- 2 303/84.1 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/84.1 FLOW RETARDER
- 2 303/89 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/89 LOCKS
- 2 303/9.67 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/5 MULTIPLE FLUID-RECEIVING DEVICES
  - 303/6.01 .Multiple motors
  - 303/9.62 ..Apportioning control
  - 303/9.67 ...Inertia
- 2 360/85 (1 OR, 1 XR)
  - Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL
  - 360/81 RECORD TRANSPORT WITH HEAD MOVING DURING TRANSDUCING
  - 360/83 .Tape record
  - 360/84 ..Rotating head
  - 360/85 ...Tape in container
- 2 417/470 (1 OR, 1 XR)
  - Class 417 : PUMPS
  - 417/437 EXPANSIBLE CHAMBER TYPE
  - 417/470 .Biasing means effects induction stroke of abutment driven, vacuum producing pumping member

EAST 7/28/04

L Number	Hits	Search Text	DB	Time stamp
1	176	188/170.ccls. and (flange)	USPAT; US-PGPUB	2004/07/28 08:02
2	46	188/170.ccls. and (flanges!)	USPAT; US-PGPUB	2004/07/28 08:02
3	4	188/170.ccls. and (flanges! or flange adj sections!) with radial	USPAT; US-PGPUB	2004/07/28 08:04
4	46	188/170.ccls. and (flanges! or flange adj sections!)	USPAT; US-PGPUB	2004/07/28 08:08
5	104	188/170.ccls. and flange and (disk or disc) near3 brak\$4	USPAT; US-PGPUB	2004/07/28 08:12
6	30	188/170.ccls. and flange and (multidisk or multidisc or disk or disc) near3 (brake or braking)	USOCR	2004/07/28 08:10
7	221	188/170.ccls. and (disk or disc) near3 brak\$4	USPAT; US-PGPUB	2004/07/28 08:12
8	221	188/170.ccls. and (multidisk or multidisc or disk or disc) near3 brak\$4	USPAT; US-PGPUB	2004/07/28 08:12
9	2406	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)	USPAT; US-PGPUB	2004/07/28 08:30
10	2405	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) same (brake or braking)	USPAT; US-PGPUB	2004/07/28 08:30
11	3983	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:43
12	25523	(disk or disc or multidisk or multidisc) adj brake	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:32
13	479	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:32
14	20	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )) and (fastener or fastening) same flange	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:37
15	0	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )) and hollow adj body	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:37
16	31	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )) and radial\$ near2 flange	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:39
17	159	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )) and flange	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:41
18	30	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )) and flange and ring with groove	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:40
19	129	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )) and flange) not ((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking)) and ((disk or disc or multidisk or multidisc) adj brake )) and flange and ring with groove)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:42

20	4092	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking) or spring adj pressure adj brake	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:43
21	488	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking) or spring adj pressure adj brake) and ((disk or disc or multidisk or multidisc) adj brake )	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 08:49
22	84	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking) or spring adj pressure adj brake) and ((disk or disc or multidisk or multidisc) adj brake )	EPO; JPO; DERWENT	2004/07/28 08:43
23	1	1999-122905.NRAN.	DERWENT	2004/07/28 08:45
24	1	1990-313504.NRAN.	DERWENT	2004/07/28 08:47
25	404	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking) or spring adj pressure adj brake) and ((disk or disc or multidisk or multidisc) adj brake )	USPAT; US-PGPUB	2004/07/28 08:49
26	125	((springapplied or springapply or spring adj (apply or applied) near4 (brake or braking)) or springbrake or springpressure adj (brake or braking) or spring adj (brake or braking) or spring adj pressure adj brake) and ((disk or disc or multidisk or multidisc) adj brake )) and 188/71.5,170-171,72.3.ccls.	USPAT; US-PGPUB	2004/07/28 08:49
-	0	"10314691" near2 de	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 06:08
-	0	"103" adj "14" adj "691"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 06:11
-	4	bittermann.in. and tronicke.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 06:13
-	79	stromag.asn. and brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:39
-	1	2003-419398.NRAN.	DERWENT	2004/07/28 06:17

-	145	("4592669" "4242943" "4480531" "5558123" "5558001" "5586630" "5697336" "5802950" "4313643" "4386808" "4394833" "4471978" "4553471" "4828077" "4887513" "5401085" "5526729" "5711550" "5753807" "5918462" "5937733" "6006651" "6021704" "6029447" "6058982" "6058982" "6164187" "6195993" "6196939" "4070069" "4262968" "4279214" "4284307" "4325582" "4332423" "4346942" "4361361" "4373333" "4419924" "4426891" "4471858" "4475632" "4493508" "4521032" "4524853" "4560250" "4632014" "4792021" "4796732" "4819996").pn. ("4857253" "4896753" "4909477" "4930312" "4941511" "4949754" "4951470" "5002162" "5021623" "5178092" "5186141" "5219054" "5251969" "5263320" "5290096" "5322354" "5331481" "5346291" "5383530" "5390893" "5421438" "5437351"	USPAT; US-PGPUB	2004/07/28 07:43
Search History 7/28/04 8:57:06 AM Page 3 C:\APPS\least\workspaces\10808968.wsp				

-	748	188/170.ccls.	USPAT; US-PGPUB	2004/07/28 07:07
-	15	188/170.ccls. and (onepiece or one adj piece)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:14
-	1	(onepiece or one adj piece) adj housing same spring\$5 adj brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:12
-	131	188/170.ccls. and 92/\$.ccls.	USPAT; US-PGPUB	2004/07/28 07:13
-	17	92/63,130a.ccls. and (onepiece or one adj piece)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:16
-	34	188/71.5.ccls. and (onepiece or one adj piece)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:18
-	23	188/71.5.ccls. and (springappl\$4 or spring adj appl\$4 or springbrak\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:19
-	833	188/170.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:44
-	0	stromag.asn. and brak\$4 and hydromotor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/28 07:39
-	85	188/170.ccls.	EPO; JPO; DERWENT	2004/07/28 07:41

	108	("4592669" "4242943" "4480531" "5558123" "5558001" "5586630" "5697336" "5802950" "4313643" "4386808" "4394833" "4471978" "4553471" "4828077" "4887513" "5401085" "5526729" "5711550" "5753807" "5918462" "5937733" "6006651" "6021704" "6029447" "6058982" "6058982" "6164187" "6195993" "6196939" "4070069" "4262968" "4279214" "4284307" "4325582" "4332423" "4346942" "4361361" "4373333" "4419924" "4426891" "4471858" "4475632" "4493508" "4521032" "4524853" "4560250" "4632014" "4792021" "4796732" "4819996").pn. ("4857253" "4896753" "4909477" "4930312" "4941511" "4949754" "4951470" "5002162" "5021623" "5178092" "5186141" "5219054" "5251969" "5263320" "5290096" "5322354" "5331481" "5346291" "5383539" "5390993" "5421438" "5437351"	USPAT; US-PGPUB	2004/07/28 07:44
Search History 7/28/04 8:57:06 AM Page 5 C:\APPS\least\workspaces\10808968.wsp				

-	748	188/170.ccls.	USPAT; US-PGPUB	2004/07/28 08:02
-	84	303/71,9.76.ccls. and hydraulic\$4	USPAT; US-PGPUB	2004/07/28 07:45